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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/649,786	08/28/2003	Tamon Kasajima	033211-038	5596	
21839 7590 05/04/2007 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER		
POST OFFICE	POST OFFICE BOX 1404			EVANS, JEFFERSON A	
ALEXANDRIA	ALEXANDRIA, VA 22313-1404		ART UNIT	PAPER NUMBER	
			2627		
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			05/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/649,786	KASAJIMA ET AL.		
Office Action Summary		Examiner	Art Unit		
		Jefferson A. Evans	2627		
Period f	The MAILING DATE of this communication app for Reply	pears on the cover sheet wi	th the correspondence address		
	HORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 M	ONTH(S) OR THIRTY (30) DAYS.		
WHI - Exte afte - If N - Fail Any	CHEVER IS LONGER, FROM THE MAILING Dates of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period valure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a rewill apply and will expire SIX (6) MON a, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status					
1)🛛	Responsive to communication(s) filed on 19 Ja	anuary 2007.			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.				
3)[Since this application is in condition for allowa	nce except for formal matte	ers, prosecution as to the merits is		
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.		
Disposit	tion of Claims				
4)🖂	Claim(s) 1-11 is/are pending in the application.				
	4a) Of the above claim(s) is/are withdraw	wn from consideration.			
5)[Claim(s) is/are allowed.		·		
6)⊠	Claim(s) <u>1-8,10 and 11</u> is/are rejected.				
· · ·	Claim(s) 9 is/are objected to.	•	•		
8)[Claim(s) are subject to restriction and/o	r election requirement.			
Applicat	tion Papers				
9)[The specification is objected to by the Examine	er.			
10)[The drawing(s) filed on is/are: a) acc	epted or b)☐ objected to t	by the Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the correct		· · · · · · · · · · · · · · · · · · ·		
11)[The oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PTO-152.		
Priority	under 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).		
a))				
	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	s have been received in Ap	oplication No		
	3. Copies of the certified copies of the prior	•	received in this National Stage		
	application from the International Bureau				
* ;	See the attached detailed Office action for a list	of the certified copies not	received.		
Attachmer	• 1 1	Λ\	umman (OTO 442)		
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview S Paper No(s	ummary (PTO-413))/Mail Date		
3) 🔯 Infor	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		formal Patent Application		

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Claims 1 to 11 are pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6, 10, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Narushige et al (JP 56-156914). Note figures 3 and 4 which depict a conductive metal layer (16,19) planar with and adjacent to a coil conductor 13. It is indicated that the head operates at a high frequency and that an alternating-current magnetic flux with a frequency f is applied to the conductive layer, which indicate that an alternating current is applied to the coil conductor. The conductive metal layer may or may not be electrically connected to the coil conductor.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narushige et al.

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As per Claim 7

Narushige does not expressly disclose having a conductive metal layer on both sides of the coil conductor.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have a conductive metal layer both above and below the conductive coil. The motivation would have been: it was known in the art to provide additional copies of beneficial elements and it would have been recognized that such a conductive metal layer would have functioned whether above or below the conductive coil, i.e., the magnetic phenomenon involved would not depend on the conductive metal layer being above or below the conductive coil.

As per Claim 8

Narushige does not expressly disclose whether the conductive coil penetrates the conductive metal layer.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to not have the conductive coil penetrate the conductive metal layer. The motivation would have been: it was known in the art that providing vias/openings for a portion of one thin film layer to penetrate another thin film layer added to the level of complexity of a manufacturing process.

Allowable Subject Matter

5. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JAE

April 30, 2007

Jefferson A. Evans Primary Examiner Art Unit 2627

> JEFFERSON EVANS PRIMARY EXAMINER